

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20060038311").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 13:47
S2	1	((NARI HIKO) near2 (TOGOU)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:47
S3	2	((NARI HIKO) near2 (TOGOU)).INV.	EPO; JPO; DERWENT	OR	ON	2008/06/17 13:47
S4	1	((MASAYA) near2 (SATOU)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:47
S5	17	((MASAYA) near2 (SATOU)).INV.	EPO; JPO; DERWENT	OR	ON	2008/06/17 13:47
S6	662	sekisui.as.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:49
S7	91238	sekisui.as.	FPRS; EPO; JPO; DERWENT	OR	ON	2008/06/17 13:49
S8	576	S6 and resin	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:49
S9	275	S8 and styrene	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:50
S10	70	S9 and blowing	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:50
S11	18	S10 and bead\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 13:50
S12	1	("3963816").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 14:32
S13	21	("3086248"   "3126432"   "3155379"   "3162704"   "3207820"   "3417170"   "3446882"   "3452124").PN. OR ("3963816").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 14:43
S14	1	("4560705").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 14:50
S15	4	("4560705").URPN.	USPAT	OR	ON	2008/06/17 14:54
S16	747	(521/60).COLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 14:56
S17	210	S16 and (surfactant soap)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 14:56
S18	15	S17 and (surfactant with (impregnate impregnat \$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 14:57

S19	1	("5217660").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 15:08
S20	2	("2983692").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 15:09
S21	12	("2983692").URPN.	USPAT	OR	ON	2008/06/17 15:12
S22	1	("3900433").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 15:16
S23	1	("4871594").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 15:30
S24	8	("3900433").URPN.	USPAT	OR	ON	2008/06/17 15:38
S25	145	(styrene) with (pre\$1foam \$3 pre\$1expand\$3 prefoam\$3)	USPAT	OR	ON	2008/06/17 15:44
S26	1	EP-343473-\$ did.	EPO; DERWENT	OR	ON	2008/06/17 16:47
S27	1	("6476089").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 17:06
S28	169	(styrene) with (olefin ethylene propylene) with (expandable expand)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:13
S29	2	S28 with surfactant	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:13
S30	43	S28 and steam	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:19
S31	1	("5244996").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 17:21
S32	1	("5460818").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 17:32
S33	362	styrene with (cationic near surfactant)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:40
S34	37	S33 and foam	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:41
S35	40908	cationic near3 surfactant	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:44
S36	11818	S35 and foam	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:44
S37	6206	S36 and (styrene olefin)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:44
S38	1170	S37 and bead	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:44
S39	204	S38 and steam	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 17:44
S40	1	("4302549").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 17:45

S41	1	("3759641").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 17:49
S42	2	("3023175").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/17 18:05
S43	2	("4286069").URPN.	USPAT	OR	ON	2008/06/17 18:44
S44	1785	(264/41).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/18 08:51
S45	714	(264/42).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/18 08:51
S46	680	(264/48).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/18 08:51
S47	882	(521/56).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/18 08:51
S48	11	("3991020"   "4174427"   "4286069"   "4333970"   "4361656"   "4375497"   "4386133"   "4398958"   "4463032"   "5935645"   "6136396").PN. OR ("6646018").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/09 12:43
S49	0	(cationic near3 surfactant) with (styrene) with (bead) with (expandable)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/09 12:54
S50	4	(cationic near3 surfactant) and ((styrene) with (bead) with (expandable))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/09 12:55
S51	1	("5460818").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/09 14:09
S52	15169	(cationic near3 surfactant) and (styrene)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:29
S53	1911	S52 and expand\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:29
S54	231	S53 and HLB	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:29
S55	92	S54 and bead	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:30
S56	29	(cationic near3 surfactant) and ((styrene) with expand\$4) and (styrene surfactant).ab.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:33
S57	5	(("3155591") or ("3929678") or ("3959461") or ("4387090")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 14:36
S58	2	(("4174427") or ("4560705")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 14:39

S59	12	("2911381"   "3051682"   "3827990"   "4226942"   "4312957").PN. OR ("4560705").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:40
S60	9	("3001954"   "3468820").PN. OR ("4174427").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:42
S61	0	(S59 S60) and (cationic with surfactant)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:42
S62	9	(S59 S60) and (surfactant)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:42
S63	1167	(521/56,57).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/05 14:46
S64	57	S63 and (styrene and cationic)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:50
S65	22	S63 and (styrene and (cationic with surfactant))	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 14:52
S66	30	S63 and (styrene and (ammonium with surfactant))	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 15:26
S67	6255	(surfactant).ab. and (sulfonate with anionic) and (ammonium)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:20
S68	1339	(surfactant).ab. and (sulfonated with anionic) and (ammonium)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:20
S69	1165	(surfactant).ab. and (sulfonated with anionic) and (ammonium with salt)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:20
S70	359	(surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and (styrene)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:20
S71	0	(surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and (styrene with expandable)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:20
S72	15	(surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and (styrene with coat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:20
S73	1	(surfactant).ab. and (sulfonated with anionic) and (ammonium with salt) and S63	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/05 16:21

S74	107	(styrene polystyrene) and (surfactant with bead) and (expand\$3 with bead)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:29
S75	85	((styrene polystyrene) with bead) and (surfactant with bead) and (expand\$3 with bead)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:29
S76	57	((styrene polystyrene) with bead) and (surfactant with bead) and (expand\$3 with bead) and blowing	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:31
S77	31	("3026272"   "3026273"   "3067147"   "3121132"   "3371053"   "3888957"   "4086191"   "4174427"   "4404293"   "4525484"   "4560705"   "4619845"   "4794167"   "4813859"   "4840759"   "4933105"   "5000891"   "5228620"   "5240657"   "5269980"   "5525637"   "5573790"   "5582779"   "5591778"   "5977195"   "H001094"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:40
S78	760	(521/60).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 21:53
S79	589	S78 and (styrene polystyrene)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:53
S80	155	S79 and surfactant	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:53
S81	115	S80 and blowing	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:53
S82	115	(US-20080075864-\$ or US-20080067709-\$ or US-20070254972-\$ or US-20040229966-\$ or US-20010044477-\$ or US-20010014701-\$).did. or (US-7241816-\$ or US-6908949-\$ or US-6822023-\$ or US-6797733-\$ or US-6686400-\$ or US-6638984-\$ or US-6617364-\$ or US-6610798-\$ or US-6608150-\$ or US-6593383-\$ or US-6502621-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:54

	6497269-\$ or US-			
	6476089-\$ or US-			
	6448300-\$ or US-			
	6360807-\$ or US-			
	6355697-\$ or US-			
	6355696-\$ or US-			
	6273347-\$ or US-			
	6221926-\$ or US-			
	6174471-\$ or US-			
	6093750-\$ or US-			
	6051617-\$ or US-			
	5837740-\$ or US-			
	5830922-\$ or US-			
	5763498-\$ or US-			
	5753157-\$).did. or (US-			
	5693683-\$ or US-			
	5679450-\$ or US-			
	5616413-\$ or US-			
	5605937-\$ or US-			
	5589519-\$ or US-			
	5585410-\$ or US-			
	5580503-\$ or US-			
	5240967-\$ or US-			
	5216036-\$ or US-			
	5190984-\$ or US-			
	5128380-\$ or US-			
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	5091256-\$ or US-			
	5064869-\$ or US-			
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	5026736-\$ or US-			
	4983640-\$ or US-			
	4980382-\$ or US-			
	4929645-\$ or US-			
	4927859-\$ or US-			
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	4673694-\$ or US-			
	4670513-\$ or US-			
	4665103-\$ or US-			
	4665102-\$ or US-			
	4663357-\$ or US-			
	4661564-\$ or US-			
	4661386-\$ or US-			
	4659745-\$ or US-			
	4659600-\$ or US-			
	4652609-\$ or US-			
	4647593-\$ or US-			

		4626554-\$ or US- 4622346-\$ or US- 4609681-\$ or US- 4608394-\$ or US- 4603149-\$ or US- 4599366-\$ or US- 4588751-\$ or US- 4547527-\$ or US- 4442232-\$ or US- 4439547-\$ or US- 4430449-\$ or US- 4424285-\$).did. or (US- 4423160-\$ or US- 4409338-\$ or US- 4407979-\$ or US- 4386133-\$ or US- 4361656-\$ or US- 4312957-\$ or US- 4302549-\$ or US- 4286069-\$ or US- 4278627-\$ or US- 4275023-\$ or US- 4269871-\$ or US- 4247650-\$ or US- 4241191-\$ or US- 4117178-\$ or US- 4113672-\$ or US- 4017427-\$ or US- 3929690-\$ or US- 3917545-\$ or US- 3903024-\$ or US- 3819547-\$ or US- 3819544-\$).did. or (US- 3832312-\$ or US- 3827990-\$ or US- 3770663-\$ or US- 3697454-\$ or US- 3526605-\$ or US- 3501426-\$ or US- 3342760-\$ or US- 3039977-\$).did.				
S83	115	S82 and surfactant	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:54
S84	12	S82 and (impregnat\$3 with surfactant)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 21:55
S85	22	(expand\$4 with (styrene polystyrene) with bead) and (impregnat\$3 with surfactant)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 22:02
S86	9	("4808448").URPN.	USPAT	OR	ON	2009/10/14 22:06
S87	1	("4603149").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 22:07

S88	206	((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static))	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 22:13
S89	0	((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static)) with impregnat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 22:14
S90	206	((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static))	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 22:14
S91	5	((polystyrene styrene) with bead with impregnat \$4) and (ammonium with (antistatic anti-static))	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 22:14
S92	36	((polystyrene styrene) with bead) and (ammonium with (antistatic anti-static)) and impregnat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/14 22:29
S93	15	("4238570"   "4281036"   "4495224"   "4588751"   "4599366"   "4626554"). PN. OR ("4781983"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 16:22
S94	18	("2891878").URPN.	USPAT	OR	ON	2009/10/20 16:53
S95	40	("2891878"   "3324091"   "3535294").PN. OR ("3933779").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 16:54
S96	9893	(antistatic (anti-static)) and (styrene polystyrene) and bead	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 16:58
S97	75	(antistatic (anti-static)). ab. and ((styrene polystyrene) with bead)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 16:58
S98	6	((antistatic (anti-static)) with quaternary).ab. and ((styrene polystyrene) with bead)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 16:58
S99	2	("4603149") or ("4628068").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/20 17:02
S100	2	(antistatic (anti-static)). ab. and ((styrene polystyrene) with bead) and (ethylsulfate)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 17:11
S101	8	((antistatic (anti-static)) with ethylsulfate) and (styrene polystyrene)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 17:14

S102	6	("4127552"   "4605684"   "4687801"   "4861805"   "4895886"   "5254416").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/20 17:27
S103	1	("20010034390").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/21 14:11
S104	1	("4937032").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/21 15:30
S105	2	("3206429").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/21 17:04
S106	37	(antistatic (anti-static)).ab. and ((styrene polystyrene) with bead) and aqueous	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 17:08
S107	1	("4018946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/21 17:10
S108	3	("4018946").URPN.	USPAT	OR	ON	2009/10/21 17:12
S109	15	("3023175"   "4238570"   "4424286"   "4556680"   "4599366"   "5286756"   "5308878").PN. OR ("5935645").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 17:16
S110	3	S109 and quaternary	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 17:17
S111	55	(impregnat\$3 with (antistat antistatic (anti-static)) and (styrene polystyrene) and bead	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 18:01
S112	29	(impregnat\$3 with (antistat antistatic (anti-static)) and (styrene polystyrene) and bead and quaternary	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 18:01
S113	1	("3963816").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/21 18:18
S114	21	("3086248"   "3126432"   "3155379"   "3162704"   "3207820"   "3417170"   "3446882"   "3452124").PN. OR ("3963816").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/21 18:19
S115	1	((NARI HIKO) near2 (TOGOU)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/07 16:53
S116	2	((MASAYA) near2 (SATOU)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/07 16:53

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(styrene with olefin with expand\$4 with particle).clm.	USPAT; UPAD	OR	ON	2010/10/26 17:59
L2	0	(styrene with olefin with expand\$4 with surfactant).clm.	USPAT; UPAD	OR	ON	2010/10/26 17:59
L3	9	((styrene olefin) with expand\$4 with surfactant).clm.	USPAT; UPAD	OR	ON	2010/10/26 17:59
L4	0	(impregnate with resin with blowing with surfactant).clm.	USPAT; UPAD	OR	ON	2010/10/26 18:08
L5	1	(impregnat\$3 with resin with blowing with surfactant).clm.	USPAT; UPAD	OR	ON	2010/10/26 18:08

**10/26/2010 6:15:58 PM**  
**H:\Workspaces\10541589.wsp**